|  | INDIAN SCHOOL AL WADI AL KABIR |  |
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| Class: XI | Department: SCIENCE 2020 -2021 <br> SUBJECT : Engineering Graphics | Date of submission: 07.05.2020 |
| Worksheet No:1 <br> With answers | Topic: - <br> RECTILINEAR FIGURES | Note: A4 FILE FORMAT |
| NAME | CLASS \& SEC. | ROLL NO. |

1.Divide a straight-line $A B$, proportionate to seven equal parts.
2.Construct a Right-angled Triangle $A B C$, having its hypotenuse $A C=60 \mathrm{~mm}$ and altitude $A B=$ 40 mm .
3.Consruct an Isosceles Triangle QPR, having each of its sides $=50 \mathrm{~mm}$ and base $=40 \mathrm{~mm}$.
4.Construct an equilateral triangle 0 f 40 mm sides.
5.Construct a Triangle $A B C$, having its base $B C=50 \mathrm{~mm}$, side $A B=40 \mathrm{~mm}$, side $A C=60 \mathrm{~mm}$.
6. Construct a rectangle $A B C D$ having its base $A B=60 \mathrm{~mm}$ and its side $A D=40 \mathrm{~mm}$.
7.Construct a Trapezion or Kite $A B C D$, having its diagonal $A C=50 \mathrm{~mm}$, its adjacent sides $A D$ and $A B$ each equal to 30 mm and $C D$ and $C B$ equal to 40 mm .
8. Construct a regular pentagon with base side $=30 \mathrm{~mm}$.
9.Construct a square of 50 mm sides.
10.Construct a regular hexagon on a base line of 40 mm .

## MULTIPLE CHOICE QUESTIONS

1.In Metric system the standard-length measure is ---------
a) Yard
b) Meter
c) Centimeter
d) None of the above
2.Continuous thick line is used to denote ---------
a) Visible edges
b) Axis line
c)Leader line
d)Projection line
3.The axis of a circle is denoted by which type of lines---------
a) Continuous thick lines
b) Centre line
c)Continuous thin lines
d)Double dashed lines
4.Mini drafter is a combination of ------------
a) Scale and compass
b) compass and divider
c) scale and protractor
d) Protractor and compass
5.In an equilateral triangle all angles are equal to ---------
a) 45 degree
b)60 degree
c) 90 degree
d) None of the above
6.The size of a A2 drawing sheet is $\qquad$
a) $841 \times 1189$
b) $594 \times 841$
c) $420 \times 594$
d) $210 \times 297$

## Answers - Multiple Choice Questions

1.b) Meter
2.a) Visible edges
3.b) Centre lines
4.c) scale and protractor
5.b) 60 degree
6.c) $420 \times 594$

## Answers - Drawings with Hint points

1. 


(Hint: Using Copy angle method)
2.

A

3.
(Hint: $\mathrm{QP}=\mathrm{QR}=50 \mathrm{~mm}, \mathrm{PR}=40 \mathrm{~mm}$ )
4.

5.

(Hint: $A B=40, A C=50, B C=60$, using compass)
6.

(Hint: $A B=60, A D=40$, Construct perpendicular from both points $A$ and $B$ ).
7.

(Hint: Diagonal $A C=50, A B=A B=30, C D=C B=40 \mathrm{~mm}$ )
8.

(Hint: Construct a regular pentagon on a base line $A B=30 \mathrm{~mm}$,using compass )
9.

(Hint: Construct perpendiculars from points $A$ and $B$, take equal measurement of 40 mm and cut arcs to get a square).
10.

(Hint: On a base line cut arcs equally with 30 mm and draw a circle with center O and radius OA , cut arcs equally on the circle, join all points will get a hexagon).

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